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APPLICATION NO.	Fl	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONNUMATION NO.
10/735,686		12/15/2003	Hiromi Ohta	4041J-000822	3570
27572	7590	05/18/2004		EXAM	INER
HARNESS,	DICKE	Y & PIERCE, P	JONES, MELVIN		
P.O. BOX 82	28				
BLOOMFIELD HILLS, MI 48303				ART UNIT	PAPER NUMBER
				3744	

DATE MAILED: 05/18/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

· •		11/
	Application No.	Applicant(s)
	10/735,686	OHTA ET AL.
Office Action Summary	Examiner	Art Unit
	Melvin Jones	3744
The MAILING DATE of this communication	appears on the cover sheet w	ith the correspondence address
Period for Reply		MONTH(S) EDOM
A SHORTENED STATUTORY PERIOD FOR RETHE MAILING DATE OF THIS COMMUNICATION  - Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, If NO period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by some Any reply received by the Office later than three months after the rearned patent term adjustment. See 37 CFR 1.704(b).	DN.  R 1.136(a). In no event, however, may a n. a reply within the statutory minimum of thi eriod will apply and will expire SIX (6) MOI statute, cause the application to become A	reply be timely filed ty (30) days will be considered timely. NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).
Status	. 1 1 2	
1) Responsive to communication(s) filed on _	12/15/03	
2a) This action is <b>FINAL</b> . 2b)	This action is non-tinal.	
3) Since this application is in condition for all		
closed in accordance with the practice und	ier <i>Ex par</i> te Quayle, 1935 C.I	J. 11, 453 O.G. 213.
Disposition of Claims		
4) Claim(s) 1-16 is/are pending in the appli	cation.	
4a) Of the above claim(s) is/are with		
5) Claim(s) <u>i • -i/</u> is/are allowed.		
6) Claim(s) 1+4 is/are rejected.		
7) Claim(s) 2-9 is/are objected to.		
8) Claim(s) are subject to restriction a	nd/or election requirement.	
Application Papers		
9) The specification is objected to by the Example 1	mjner.	
10)☑ The drawing(s) filed on <u>i 1/i 1/i</u> is/are: a) ☑	accepted or b)□ objected to	by the Examiner.
Applicant may not request that any objection to		
Replacement drawing sheet(s) including the co		
11)☐ The oath or declaration is objected to by th	e Examiner. Note the attache	d Office Action or form PTO-152.
Priority under 35 U.S.C. § 119		
12) ☐ Acknowledgment is made of a claim for for	eign priority under 35 U.S.C.	§ 119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:		
1. Certified copies of the priority docur	nents have been received.	
<ol><li>Certified copies of the priority docur</li></ol>		
<ol><li>Copies of the certified copies of the</li></ol>		n received in this National Stage
application from the International Bu		
* See the attached detailed Office action for a	a list of the certified copies no	t received.
Attachment(s)	_	
1) Notice of References Cited (PTO-892)		Summary (PTO-413) (s)/Mail Date
2) Notice of Draftsperson's Patent Drawing Review (PTO-948 3) Information Disclosure Statement(s) (PTO-1449 or PTO/S	B/08) 5) Notice of	Informal Patent Application (PTO-152)
Paper No(s)/Mail Date <u>\$//1/</u> 00	6)	···········

Art Unit: 3744

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#### **DETAILED ACTION**

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1 & 9 are rejected under 35 U.S.C. 102(b) as being anticipated by JP-A-58-33075. The said Japanese Patent discloses a vapor compression cycle comprising: a first & second evaporator, a compressor, a switching device and decompression units (as disclosed in specification – see page 1-2).

### Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over JP 58-33075 in view Nishida et al (6,092,379). Nishida discloses the claimed invention as stated above but lack a supercritical fluid such as carbon dioxide. Nishida teaches the utilization of carbon dioxide as a refrigerant. It would have been obvious to one having ordinary skill in the art at the time the invention was made to utilize carbon dioxide as taught by Nishida because of its supercritical nature thereby allowing system to operate at high pressure & temperature.

# Allowable Subject Matter

Claims 10-16 are allowed over the prior art of record.

Claims 3-8 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Melvin Jones whose telephone number is (703) 305-0251. The examiner can normally be reached on Monday - Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Denise Esquivel can be reached on (703) 308-2597. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

MELVIN JONES
PRIMARY EXAMINER

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